

AMENDMENTS TO THE CLAIMS

The listing of claims provided below will replace all prior versions, and listings, of claims in the application.

Listing of claims

1-39. (Canceled)

40. (New) An isolated polypeptide comprising:

- (a) an internalizing peptide; and
- (b) the Nucleotide Binding Domain 1 of the human Cystic Fibrosis Trans-membrane conductance Regulator protein, wherein the amino acid at position 508 numbered relative to the entire human Cystic Fibrosis Trans-membrane conductance Regulator protein is deleted, and wherein the polypeptide enhances Cystic Fibrosis Trans-membrane conductance Regulator channel activity when present in a cell expressing a mutant Cystic Fibrosis Trans-membrane conductance Regulator channel.

41 (New) The polypeptide of claim 40, wherein the polypeptide further comprises the Regulatory domain of the Cystic Fibrosis Trans-membrane conductance Regulator protein.

42. (New) The polypeptide of claim 40 wherein the internalizing peptide is selected from the group consisting of SEQ ID NOS:1-19 and SEQ. ID. NO. 20.

43. (New) The polypeptide of claim 40 wherein the internalizing peptide is SEQ ID NO:2.

44. (New) The polypeptide of any one of claims 40, 41, 42 or 43, wherein the polypeptide further comprises a secretion leader sequence.